

Qsan P200V60

3U 16-bay High Performance iSCSI-SAS RAID System
iSCSI GbE(x4) support both SAS and SATA drives

Feature Highlights

1. Support Snapshot
2. QCopy
3. SAS JBOD expansion
4. Load-balancing & fail-over
5. RAID 6, 60 ready
6. Volume Sharing
7. Web-based management
8. On-line volume expansion & migration
9. HDD S.M.A.R.T. enabled
10. Global/dedicated cache

Performance

Read + Write max 600MB/sec
Read/Write max IOPS 120k

Key Components

1. Intel Xscale IOP342 (Chevelon dual core)
2. 1GB ~ 2GB DDRII 400/533 DIMM
3. 32MB Flash
4. UARTs: serial console and UPS
5. Fast Ethernet port for management
6. Drive-side & Host-side: LSI 1064E – SAS(3.0Gb/s), SATAII(3Gb/s), SATAI(1.5Gb/s)
7. Host-side: Two Intel 82546GB controllers
8. LCM & Enclosure monitor processors
9. Optional Battery backup module
10. NVRAM for IO transaction record

Host Side

1. 4 x GbE Host port
2. 802.3ad port trunking and LACP
3. Microsoft Multipath I/O (MPIO)
4. iSNS & DHCP Support ,CHAP authentication
5. Data/Header digest support
6. iSCSI jumbo frame support with MTU up to 8K bytes
7. iSCSI jumbo target mode : 32multiple nodes support
8. Up to 32 host connection
9. Up to 16 hosts for one volume

Drive Side

1. Support 16 SAS/SATA disk trays
2. Multiple IO transaction processing
3. Tagged command queuing
4. Hard drive S.M.A.R.T. enabled

JBOD

One x4 external SFF-8470 SAS port to JBODs subsystem

Management

1. Management UI via serial console
2. Browser-based GUI by Ethernet
3. SSH telnet by Ethernet
4. Event notification via Email and SNMP trap



RAID & Volume Operation

1. RAID level: 0,1,0+1,3,5,6,10,30,50, 60 and JBOD
2. Up to 1024 logical volumes in the system
3. Up to 16 HDDs included in one volume group
4. Global and dedicated hot spare disks
5. Write-through or write-back cache policy
6. Dedicated or shared cache allocation for volume usage
7. Multiple RAID volumes support
8. Configurable RAID stripe size
9. Online volume expansion
10. Instant RAID volume availability
11. Auto volume rebuilding
12. On-line volume migration

Advanced Data Protection

1. Built-in snapshot with rollback enabled
2. Windows Volume Shadow Copy Services (VSS)
3. Snapshot enabled up to 16 UDV, each UDV supports up to 32 snapshot volumes, total 512 snapshot volumes per controller
4. QCopy - built-in remote replication between two subsystem
5. Off-line array roaming
6. Smart faulty sector relocation
7. Battery backup support (optional)

OS Support

1. Support Windows XP, 2003 Server
2. Linux
3. MAC OS
4. Solaris O/S

Enclosure Monitoring

1. S.E.S. support for standard enclosure management
2. UPS management via the specific serial port
3. Fan speed monitoring x 2
4. Redundant power supply monitor
5. 3.3V, 5V and 12V voltage monitor
6. Thermal sensors x 3 on the controller BOARD (for CPU, bridge and host channel chip)
7. Thermal sensor x 3 in enclosure.
8. Status monitor of expanded SAS/SATA JBODs

Power & Environment

- * AC input:
100-240V ~ 8A-4A 550W with PFC (Auto Switching)
- * DC output:
3.3V-28A; 5V-30A; 12V-35A
- * Operating Temperature:
0°C to 40°C
- * Relative Humidity:
5% to 95% non-condensing

Dimension

1. 3U 19-inch rackmount chassis
2. 447(W) x 550(D) x 131(H) mm (17.6 x 21.6 x 5.15 inches)



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